Register your product and get support at

www.philips.com/welcome

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EN User Manual

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English

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1 Notice

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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

Warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Support for service or repairs.

Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.

Pixel characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.

Philips is committed to develop, produce and market products that cause no adverse health effects. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Mains fuse (UK only)

This TV is fitted with an approved moulded plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug (example 10A).

1 Remove fuse cover and fuse.

2 The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your dealer in order to verify the correct type.

3 Refit the fuse cover.

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In order to maintain conformity to the EMC directive, the mains plug on this product must not be detached from the mains cord cable.

Copyright

VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.

® Kensington and Micro Saver are registered US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world.

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2 Important

Read and understand all instructions before you use your TV. If damage is caused by failure to follow instructions, the warranty does not apply.

Safety

- Risk of electric shock or fire!
  - Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
  - Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight.
    To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.

  - Never insert objects into the ventilation slots or other openings on the TV.
  - When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- Risk of short circuit or fire!
  - Never expose the remote control or batteries to rain, water or excessive heat.
  - Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.
- Risk of injury or damage to the TV!
  - Two people are required to lift and carry a TV that weighs more than 25 kg.
  - When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
  - When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.
- Risk of injury to children!Follow these precautions to prevent the TV from toppling over and causing injury to children:
  - Never place the TV on a surface covered by a cloth or other material that can be pulled away.
  - Ensure that no part of the TV hangs over the edge of the surface.
  - Never place the TV on tall furniture (such as a bookcase) without anchoring both the furniture and TV to the wall or a suitable support.
  - Educate children about the dangers of climbing on furniture to reach the TV.
- Risk of overheating! Never install the TV in a confined space. Always leave a space of at least 4 inches or 10 cm around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.
- Risk of damage to the TV! Before you connect the TV to the power outlet, ensure that the power voltage matches

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the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.
- Risk of injury, fire or power cord damage! Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.
- Risk of hearing damage! Avoid using earphones or headphones at high volumes or for prolonged periods of time.
- If the TV is transported in temperatures below 5°C, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power outlet.

Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.

Disposal of your old product and batteries

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.
Please act according to your local rules and do not dispose of your old products with your normal household waste.
Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.
Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

English

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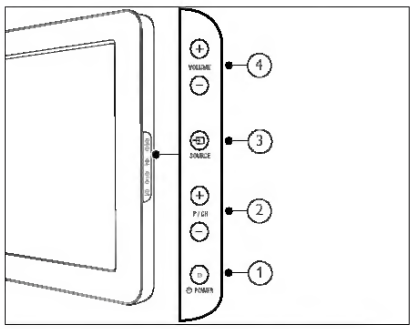
3 TV overview

This section gives you an overview of commonly used TV controls and functions.

Side controls and indicators



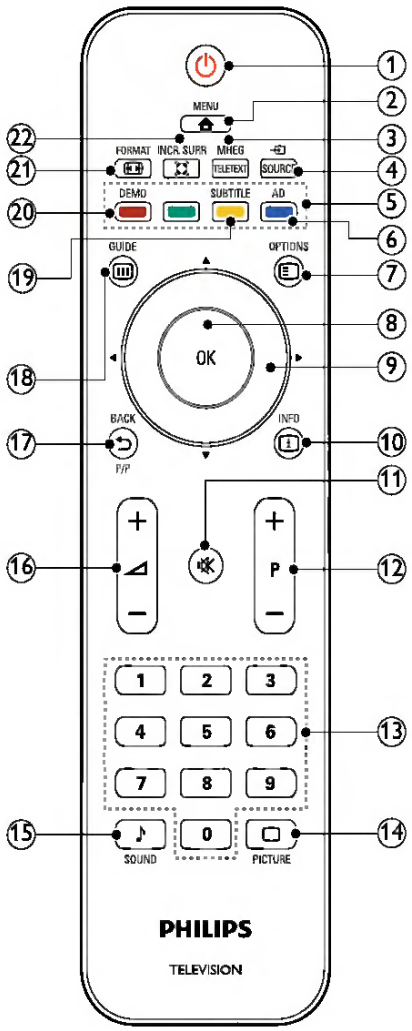
① ⏻ POWER: Switches the product on or off. The product is not powered off completely unless it is physically unplugged.

② P/CH +/-: Switches to the next or previous channel.

③ SOURCE: Selects connected devices.

④ VOLUME +/-: Increases or decreases volume.

Remote control



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① **⏻ (Standby-On)**
- Switches the TV to standby if it is on.
- Switches on the TV if it is in standby.

② **⌂ MENU**
Toggles the main menu on or off.

③ **MHEG/TELETEXT**
Toggles teletext on or off.

④ **⇥ SOURCE**
Selects connected devices.

⑤ **Colour buttons**
Selects tasks or options.

⑥ **AD (Audio Descriptor) (For RF Digital TV only)**
UK only: Enables audio commentary for the visually handicapped.

⑦ **▤ OPTIONS**
Accesses options relating to the current activity or selection.

⑧ **OK**
Confirms an entry or selection and displays the channel grid, when watching TV.

⑨ **▲▼◀▶ (Navigation buttons)**
Navigates through the menus.

⑩ **ⓘ INFO**
Displays program information, when available. If the information spans multiple pages, press **OPTIONS** to go to the next page .

⑪ **🔇 (Mute)**
Mutes or restores audio output.

⑫ **P +/- (Programme +/-)**
Switches to the next or previous channel. When the TV menu is on, this functions as Page Up/Down.

⑬ **0-9 (Numeric buttons)**
Selects a channel or setting.

⑭ **▢ PICTURE (Smart picture)**
Launches the picture menu.

⑮ **♪ SOUND(Smart Sound)**
Launches the sound menu.

⑯ **◢ +/- (Volume +/-)**
Increases or decreases volume.

⑰ **⮌ BACK P/P (Previous channel)**
- Returns to a previous screen.
- Returns to the previously viewed channel.

⑱ **▥ GUIDE**
Switches between channel grid and programme list.

⑲ **SUBTITLE (For RF Digital TV only)**
Enables or disables subtitles.

⑳ **DEMO**
Toggles the demonstration menu on or off.

㉑ **▣ FORMAT**
Selects a picture format.

㉒ **⌘ INCR. SURR**
Enables Incredible Surround for stereo sources. Enables spatial mode for mono sources.

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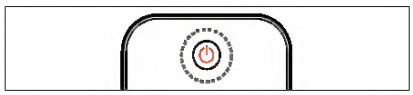
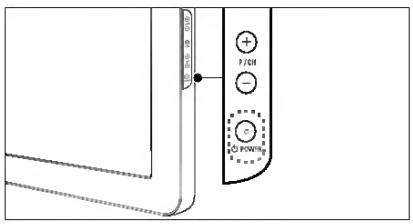
4 Use your product

This section helps you perform basic operations (see 'Use more of your product' on page 10).

Switch your TV on/off or to standby





To switch on

- If the standby indicator is off, press ⏻ **POWER** at the side of the TV.
- If the standby indicator is red, press ⏻ (**Standby-On**) on the remote control.

To switch to standby

- Press ⏻ (**Standby-On**) on the remote control.
  ↳ The standby indicator switches to red.

To switch off

- Press ⏻**POWER** at the side of the TV.
  ↳ The standby indicator switches off.

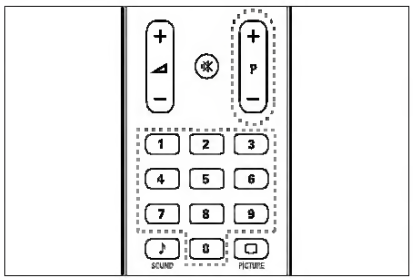
Tip

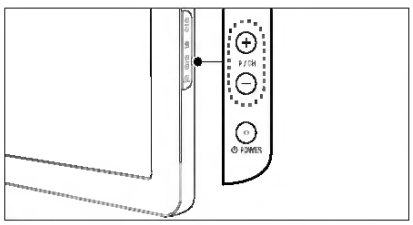
- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.

Note

- If you cannot locate your remote control and want to switch on the TV from standby, press **P/CH +/-** or **SOURCE** at the side of the TV.

Switch channels





- Press **P +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Enter a channel number using the **Numeric buttons**.
- Use the channel grid.

Note

- When you use a favourite list, you can only select those channels in the list.

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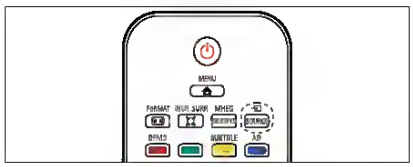
Watch connected devices

Note

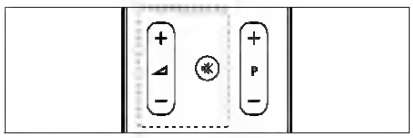
- Switch on the device before selecting it as a source on the TV

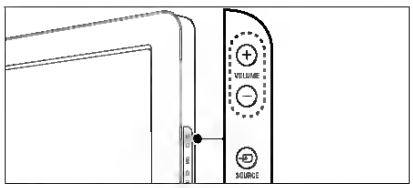
Use the source button



1 Press SOURCE
   ↳ The source list appears.
2 Press the **Navigation buttons** to select a device.
3 Press **OK** to confirm your choice.
   ↳ The TV switches to the selected device.

Adjust TV volume





To increase or decrease volume

- Press ◿ **+/-**
- Press **VOLUME +/-** on the side of the TV

To mute or unmute sound

- Press 🔇 to mute the sound.
- Press 🔇 again to restore the sound.

English

Use teletext

1 Press **MHEG/TELETEXT**
   ↳ The main index page appears.
2 Select a page as follows
   - Press the **Numeric buttons** to enter a page number.
   - Press **P +/-** or ▲▼ to view the next or previous page.
   - Press the **Colour buttons** to select a colour coded item.
   - Press ⮌ **BACK** to return to a previously viewed page.
3 Press **MHEG/TELETEXT** to exit teletext.

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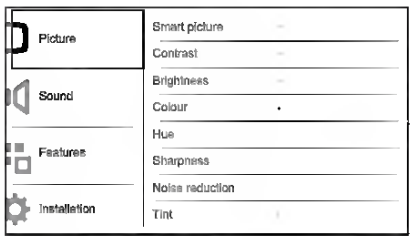
5 Use more of your product

Access TV menus

Menus help you to install channels, change picture and sound settings and access other features.

1 Press ⌂ MENU.
↳ The menu screen appears.



2 Press the ▲▼◀▶ to select and navigate through one of the following menus.
- **[Picture]** Adjusts the picture setting for optimal viewing
- **[Sound]** Adjusts the sound setting
- **[Features]** Accesses different features like timer, TV lock and demo
- **[Installation]** Selects channel installation menu, adjusts preferences and resets the TV to factory settings

3 Press **OK** to confirm your choice.

Tip

- Press ⌂ **MENU** at any time to exit the menu.
- Press ⮌ **BACK** to move back one screen.

Change picture and sound settings

Change picture and sound settings to suit your preferences. You can apply pre-defined settings or change settings manually.

Use smart picture

Use smart picture to apply pre-defined picture settings.

1 Press ▭ **PICTURE**.
↳ The **[Smart picture]** menu appears.

2 Press ▲▼ to select one of the following smart picture settings.
- **[Personal]** Lists customised personal picture settings.
- **[Vivid]** Maximises picture settings.
- **[Standard]** Adjusts picture settings to suit most environments and types of video.
- **[Movie]** Applies picture settings ideally suited for movie viewing.
- **[Game]** Applies picture settings maximised for fast-moving games.
- **[Energy saving]** Applies low-energy picture settings.

3 Press **OK** to confirm your choice.
↳ The selected smart picture setting is applied.

Manually adjust picture settings

1 Press ⌂ **MENU**.

2 Press **OK** to select **[Picture]**.
↳ The **[Picture]** menu appears.

3 Press ▲▼◀▶ to select one of the following picture settings.
- **[Smart picture]** Accesses pre-defined smart picture settings.
- **[Contrast]** Adjusts the intensity of bright areas, keeping dark areas unchanged
- **[Brightness]** Adjusts the intensity and details of dark areas

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- **[Colour]**Adjusts colour saturation
- **[Hue]**Compensates colour variations in NTSC encoded transmissions
- **[Sharpness]**Adjusts the level of sharpness in image details
- **[Noise reduction]**Filters and reduces noise in an image
- **[Tint]**Adjusts the colour balance in an image
- **[Custom tint]**Make a customised tint setting
- **[Dig.CrystalClear]**Digitally adjusts picture quality to optimal contrast, colour and sharpness
  - **[Dynamic contrast]**Automatically enhances contrast in an image. A **[Medium]** setting is recommended
  - **[Dynamic backlight]**Adjusts the brightness of the TV backlight to match lighting conditions
  - **[MPEG artifact re.]**Smoothes out transitions on digital pictures. You can switch this feature on or off
  - **[Colour enhancement]**Makes colours more vivid and improves the resolution of details in bright colours. You can switch this feature on or off
- **[PC mode]**Adjusts the picture when a PC is connected to the TV via HDMI/DVI
- **[Picture format]**Changes the picture format
- **[Horizontal shift]**Adjusts the picture horizontally for PC-VGA or YPbPr (EXT2 or EXT3)
- **[Vertical shift]**Adjusts the picture vertically for PC-VGA or YPbPr (EXT2 or EXT3)

Change picture format

1 Press **FORMAT**
↳ A picture format bar appears.

2 Press ▲▼ to select a picture format.
↳ The selected picture format is activated.

3 Press **OK** to confirm your choice.

Summary of picture formats

The following picture settings can be configured.

Note

- Depending on the format of the picture source, some picture settings are not available.

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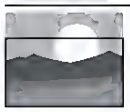
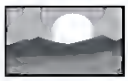
	[Auto format](Not for PC mode.) Enlarges the picture automatically to best fit the screen. The subtitles remain visible.
	[Super zoom](Not for HD and PC mode.) Removes the black bars on the side of 4:3 broadcasts. There is minimal distortion
	[4:3]Shows the classic 4:3 format.
	**[Subtitle zoom]**Displays 4:3 pictures over the full area of the screen, with sub-titles visible. Part of the top of the picture is clipped off.
	[Movie exp.14:9](Not for HD and PC mode.) Scales 4:3 format to 14:9.
	[Movie exp.16:9](Not for HD and PC mode.) Scales 4:3 format to 16:9.
	**[Wide screen]**Stretches the classic 4:3 format to 16:9.
	[Unscaled]For HD and PC mode only, and in selected models only. Allows maximum sharpness. Some distortion may be present due to the broadcaster's systems. Set your PC resolution to wide screen mode for best results.

Use smart sound

Use smart sound to apply pre-defined sound settings.

1 Press ♪ **SOUND**.
↳ The **[Smart sound]** menu appears.

2 Press ▲▼ to select one of the following smart sound settings.
- **[Standard]**Adjusts sound settings to suit most environments and types of audio.
- **[News]**Applies sound settings ideally suited for spoken audio, such as the news.
- **[Movie]**Applies sound settings ideally suited for movies.
- **[Personal]**Applies the settings that were customised in the sound menu.

3 Press **OK** to confirm your choice.
↳ The selected smart sound setting is applied.

Adjust sound settings

1 Press ⌂ **MENU**.

2 Press ▲▼ to select **[Sound]**.
↳ The **[Sound]** menu appears.

3 Press ▲▼◀▶ to select one of the following sound settings.
- **[Smart sound]**Accesses pre-defined smart sound settings.
- **[Bass]**Adjusts the bass level.
- **[Treble]**Adjusts the treble level.
- **[Volume]**Adjusts the volume.
- **[Balance]**Adjusts the balance of the right and left speakers to best suit your listening position.
- **[Dual I-II]**Selects between audio languages if dual sound is broadcast.
- **[Mono/Stereo]**Selects between mono or stereo if stereo is broadcast.
- **[Surround]**Enables spatial sound.
- **[Auto volume]**Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.

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- **[Delta volume]**Levels out volume differences between channels or connected devices. Switch to the connected device before you change the delta volume.

Use advanced teletext features

Access the teletext options menu

Most of the advanced teletext features are accessed via the teletext options menu.

1 Press **MHEG/TELETEXT**.
↳ The teletext screen appears.

2 Press **OPTIONS**
↳ The teletext options menu appears.

3 Press ▲▼ to select one of the following options.
- **[Reveal]**Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
- **[Cycle subpage]**Cycles through subpages automatically if subpages are available.
- **[Language]**Switches to a different language group to display a language correctly when that language uses a different character set.
- **[Freeze page]**Freezes the current page.

4 Press **OK** to confirm your choice and exit the teletext options menu.

Select teletext subpages

A teletext page can hold several subpages. Subpages are displayed on a bar next to the main page number.

1 Press **MHEG/TELETEXT** .
↳ The teletext screen appears.

2 Select a teletext page with subpages.

3 Press ▶ to enter a subpage.
↳ The subpage appears.

4 Press ◀▶ to switch between subpages.

Select T.O.P. teletext broadcasts

Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers. T.O.P. teletext is not broadcast on all TV channels.

1 Press **MHEG/TELETEXT**
↳ The teletext screen appears.

2 Press **INFO**
↳ The T.O.P. overview appears.

3 Press ▲▼◀▶ to select a subject.

4 Press **OK** to view the page.

Create and use lists of favourite channels

You can create lists of your preferred TV channels and radio stations so that you can find those channels easily.

Tip

- You can create and store up to four favourite lists on your TV.

Select a favourite list

1 When watching TV, press **OK** to display the channel grid.

2 Press **OPTIONS**
↳ The channel options menu appears.

3 Press **OK** to select **[Show favourite ch.]**
↳ The favourite lists appear.

4 Press ▲▼ to select a favourite list.

5 Press **OK**.
↳ Only channels in the favourite list appear in the channel grid.

English

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View all channels

You can exit a favourite list, and view all installed channels.

1 When watching TV, press **OK** to display the channel grid.
2 Press **OPTIONS**.
↳ The channel options menu appears.
3 Select **[Show favourite ch.]** > **[All]**.
4 Press **OK**.
↳ All channels display in the channel grid.

Note

- All favourite channels are marked by an asterisk in the channel grid.

Add a channel to a favourite list

Tip

- View all channels before adding a channel to a favourite list.

1 When watching TV, switch to the channel you want to add to a favourite list (see 'Switch channels' on page 8).
2 Press **OPTIONS**.
↳ The channel options menu appears.
3 Press ▲▼ to select **[Mark as favourite]**.
4 Press **OK**.
↳ The favourite lists appear.
5 Press ▲▼ to select a favourite list to add the channel to.
6 Press **OK**.
↳ The channel is added to the favourite list.

Remove a channel from a favourite list

Note

- Select the favourite list to edit, before removing a channel.

1 When watching TV, press **OK** to display the channel grid.
2 Press **OPTIONS**.
↳ The channel options menu appears.
3 Press **OK** to enter **[Show favourite ch.]**.
4 Press ▲▼ to select a favourite list and press **OK** to confirm the choice.
5 Press ▲▼◀▶ to choose the channel that you wish to remove from the list.
6 Press **OPTIONS**.
7 Press ▲▼ to select **[Unmark as fav.]**.
8 Press **OK**.
↳ The channel is removed from the favourite list.

Use timers

You can set timers to switch the TV on or switch to standby at a specified time.

Automatically switch the TV to standby (sleeptimer)

Sleeptimer switches the TV to standby after a pre-defined period of time.

Tip

- You can always switch off your TV earlier or reset the sleeptimer during the countdown.

1 Press **MENU**.
2 Select **[Features]** > **[Sleeptimer]**.
↳ The **[Sleeptimer]** menu appears.

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3 Press ◀▶ to set the sleep time.
↳ The sleeptimer can be up to 180 minutes in steps of five minutes If set to zero minutes, the sleeptimer is switched off

4 Press **OK** to activate the sleeptimer
↳ The TV switches to standby after the pre-defined period of time

Automatically switch the TV on (on timer)

You can switch the TV to a specified channel at a specified time, from standby

1 Press ⌂ **MENU**
2 Select **[Features]** > **[On timer]**
3 Press ▶ to enter the **[On timer]** menu
4 Press ▲▼◀▶ to select **[Activate]** and set a frequency - **[Daily]**, **[Once]** or **[Off]**
5 Press **OK** to confirm
6 Press ▲▼◀▶ to select **[Time]** and set the starting time
7 Press **[Done]** to confirm
8 Press ▲▼◀▶ to select **[Programme no.]** and set the channel.
9 Press **OK** to confirm
10 Press ⌂ **MENU** to exit

Tip

- Select **[On timer]** > **[Activate]** > **[Off]** to disable **[On timer]**
- When **[On timer]** is **[Off]**, only **[Activate]** can be selected
- Set the TV clock before activating **[On timer]**feature (see 'Set the TV clock' on page 16)

Use TV lock

You can prevent your children from watching certain programs or certain channels by locking the TV controls

English

Set or change the TV lock code

1 Press ⌂ **MENU**
2 Press ▲▼◀▶ to select **[Features]** > **[Set code]**
3 Press ▶ to enter the code setup
4 Enter your code using the **Numeric buttons**
5 Re-enter the same code in the new dialogue box for confirmation
↳ If the code is set successfully, the dialogue box will disappear However, if the code cannot be set, a new dialogue box will prompt you to re-enter the code
6 If you want to change the code, select **[Features]** > **[Change code]**
7 Enter your current code using the **Numeric buttons**
↳ If the code is validated, a new dialogue box will prompt you to enter your new code
8 Enter the new code using the **Numeric buttons**
↳ A message appears prompting you to enter the new code again for confirmation

Tip

- If you forget your code, enter '8888' to override any existing codes

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Lock or unlock the TV

Locking the TV prevents your child from accessing all channels and connected devices.

1. Press **MENU**.
2. Press ▲▼◀▶ to select **[Features]** > **[TV lock]**.
3. Press ▶ to enter the **[TV lock]**.
   ↳ A screen appears prompting you to enter a code.
4. Enter your code using **Numeric buttons**.
5. Press ▲▼ to select **[Lock]** or **[Unlock]**.
6. Press **OK**.
   ↳ All channels and connected devices are locked or unlocked.
7. Press **MENU** to exit.

Note

- If you select **[Lock]**, you have to enter your code every time you turn on your TV.

Lock or unlock one or more channels

1. When watching TV, press **OK** to display the channel grid.
2. Press ▲▼◀▶ to select a channel to lock or unlock.
3. Press **OPTIONS**.
4. Press ▲▼ to select **[Lock channel]** or **[Unlock channel]**.
5. For each selection, press **OK** to lock or unlock the channel.

Note

- Restart the TV for the change to take effect.

Use the TV clock

You can display a clock on the TV screen.

Set the TV clock

1. Press **MENU**.
2. Select **[Features]** > **[Clock]**.
   ↳ The **[Clock]** menu appears.
3. Press ▲▼◀▶ or **Numeric buttons** to enter time.
4. Press **[Done]** to confirm.
5. Press **MENU** to exit.

Change TV preferences

1. Press **MENU**.
2. Select **[Installation]** > **[Preferences]**.
3. Press ▶ to enter **[Preferences]**.
   - **[Location]** Optimises TV settings for your location - home or shop.
   - **[Volume bar]** Displays the volume bar when adjusting the volume.
   - **[EasyLink]** Enables one-touch play and one-touch standby between EasyLink-compliant devices.
   - **[Colour]** Sets the colour television standard used in your area.
   - **[E-sticker]** For shop mode only. Sets the location of the e-sticker.
4. Press ▲▼◀▶ to select your preference.
5. Press **OK**.
6. Press **MENU** to exit.

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Access decoder channel

You can map channels provided through a decoder or descrambler to your TV channel selection. In this way, you can select these channels by using the RC of your TV. The decoder or a descrambler must be connected to EXT1 or EXT2.

Set decoder channel

Map channels from a decoder or descrambler

1. Press ⌂ MENU.
2. Select **[Installation]** > **[Decoder]**.
3. Press ▶ to enter **[Decoder]**.
4. Press ▶ to enter **[Channel]**.
5. Press ▲▼ to select channel number to map to the decoder/descrambler channel.
6. Press **OK**.
7. Press ▲▼◀▶ to select and enter **[Status]**.
8. Press ▲▼ to select the connector used by the decoder/descrambler (**[None]**, **[EXT 1]** or **[EXT 2]**).
9. Press **OK**.
10. Press ⌂ **MENU** to exit.

Note

- Select **[None]** if you do not want to map to the decoder/descrambler channel.
- **[EXT 2]** is available only in TVs of 26 inches and larger.

Start a TV demo

1. Press ⌂ **MENU**.
2. Select **[Features]** > **[Demo]**.
   ↳ The **[Demo]** menu appears.
3. Press ▲▼ to select a demo.
   - **[Dig.CrystalClear]** Digitally adjusts picture quality to optimal contrast, colour and sharpness.
   - **[Active Control]** Automatically adjusts the picture setting for optimal picture quality continuously under any signal conditions
4. Press **OK** to start the demo.
5. Press ⌂ **MENU** to exit.

Reset the TV to factory settings

You can restore the default picture and sound settings of your TV. Channel installation settings remain the same.

1. Press ⌂ **MENU**.
2. Select **[Installation]** > **[Factory settings]**.
3. Press ▶ to enter the **[Factory settings]** menu.
   ↳ **[Reset]** is highlighted.
4. Press **OK** to reset to factory settings.
5. Press ⌂ **MENU** to exit.

English

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6 Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV and digital radio channels (if available). This chapter provides instructions on how to re-install and fine tune channels

Automatically install channels

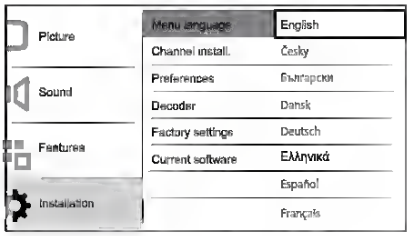
This section describes how to search and store channels automatically

Step 1 Select your menu language

Note

- Skip this step if your language settings are correct

1 Press ⌂ MENU
2 Select **[Installation]** > **[Menu language]**
3 Press ▶ to enter **[Menu language]**
4 Press ▲▼ to select a language setting



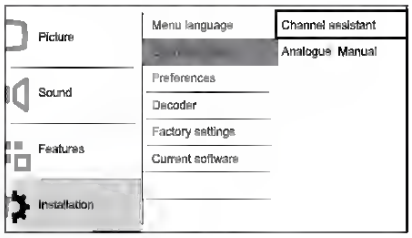
5 Press **OK** to confirm
6 Press ⌂ **MENU** to exit

Step 2 Install Channels

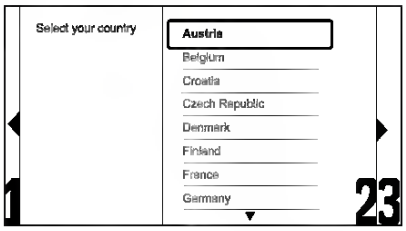
Select your country for proper channel installation

1 Press ⌂ **MENU**

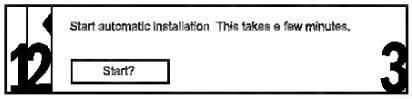
2 Select **[Installation]** > **[Channel install.]** > **[Channel assistant]**



3 Press ▲▼ to select your country



4 Press ▶ to next step
5 Select **[Start]** and press **OK** to re-install channels



↳ As the system searches for channels, you have the option to **[Stop]** the process

6 If you want to stop searching, select **[Stop]** and press **OK**
↳ A dialogue box appears asking you if you really want to **[Stop]** or **[Continue]** with the process

7 Press ◀▶ to select **[Stop]** or **[Continue]**
8 Press **OK** to confirm your choice
9 When done, press ⌂ **MENU** to exit

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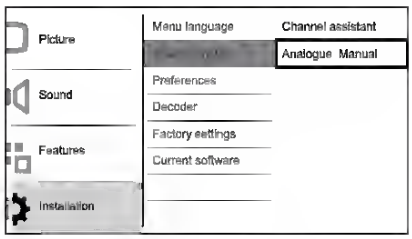
Manually install channels

This section describes how to search and store analogue TV channels manually

1 Press ⌂ MENU

2 Select **[Installation]** > **[Channel install.]** > **[Analogue: Manual]**
↳ The **[Analogue: Manual]** menu appears



3 Press ▲▼ to select the item you want to adjust
- **[System]**
- **[Search]**
- **[Fine-tune]**
- **[Store cur. chan.]**
- **[Store new channel]**
- **[Skip channel]**

Step 1 Select your system

Note

- Skip this step if your system settings are correct.

1 Press ⌂ MENU

2 Select **[Installation]** > **[Channel install.]** > **[Analogue: Manual]**
↳ The **[Analogue: Manual]** menu appears

3 Press ▲▼◀▶ to select and enter **[System]**

4 Press ▲▼ to select your country or region

5 Press **OK** to confirm

6 Press ⌂ **MENU** to exit

Step 2 Search and store new TV channels

1 Press ⌂ **MENU**

2 Select **[Installation]** > **[Channel install.]** > **[Analogue: Manual]**
↳ The **[Analogue: Manual]** menu appears

3 Press ▲▼◀▶ to select and enter **[Search]**

4 Press ▲▼ or use **Numeric buttons** to manually enter the three digit frequency

5 Press **OK** to begin search
↳ If a channel is unavailable at the selected frequency press **OK** to search for the next available channel

6 Press ⮌ **BACK** when the new channel is found

7 Press ▲▼ to select **[Store new channel]** to store the new channel under a new channel number

8 Press ▶ to enter **[Store new channel]**

9 Press ◀▶ to select **[Yes]** and press **OK** to store the new channel

10 Press ⌂ **MENU** to exit

Step 3 Fine-tune analogue channels

1 Press ⌂ **MENU**

2 Select **[Installation]** > **[Channel install.]** > **[Analogue: Manual]**
↳ The **[Analogue: Manual]** menu appears

3 Press ▲▼◀▶ to select and enter **[Fine-tune]**

4 Press ▲▼ to adjust frequency

5 Press **OK** when done.

6 Press ▲▼ to select **[Store cur. chan.]** to store channel number

7 Press ▶ to enter **[Store cur. chan.]**

8 Press ◀▶ to select **[Yes]** and press **OK** to store current channel

9 Press ⌂ **MENU** to exit

English

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Step 4 Skip channels

1 Press ⌂ MENU.
2 Press ▲▼◀▶ to select **[Installation]** > **[Channel install.]** > **[Analogue: Manual]**.
↳ The **[Analogue: Manual]** menu appears.
3 Press ▲▼◀▶ to select and enter **[Skip channel]**.
4 Press ◀▶ to select **[Yes]** and press **OK** to skip current channel.
↳ The selected channel is skipped when you press **P +/-** on your remote control or view the channel grid.
5 Press ⌂ MENU to exit.

Note

- You can restore a skipped channel to your channel listing (see 'Step 2 Search and store new TV channels' on page 19)

Rename channels

Channels can be renamed so that a name of your choice appears whenever the channel is selected.

1 When watching TV, press **OK** to display the channel grid .
2 Select the channel you want to rename.
3 Press ☰ OPTIONS.
↳ The channel options menu appears.
4 Press ▲▼◀▶ to select and enter **[Rename chan.]**.
↳ A text input box appears.
5 Press ▲▼◀▶ to select characters.
6 Press **OK** to confirm each of the characters.

Tip

- Rename channels - the length of the name is limited to six characters.
- Use **[Aa]** to change upper-case letter to lower-case letter and vice versa.

Rearrange channels

After you install channels, you can rearrange the order in which they appear.

1 When watching TV, press **OK** to display the channel grid.
2 Press ☰ OPTIONS.
↳ The channel options menu appears.
3 Press ▲▼◀▶ to select and enter **[Reorder]**.
4 Select the channel you want to reorder and press **OK**.
5 Press ▲▼◀▶ to select the new position for the channel.
6 Press **OK** to confirm the new position.
7 Press ☰ OPTIONS.
↳ [Done reordering] appears.
8 Press **OK** to finish reordering.

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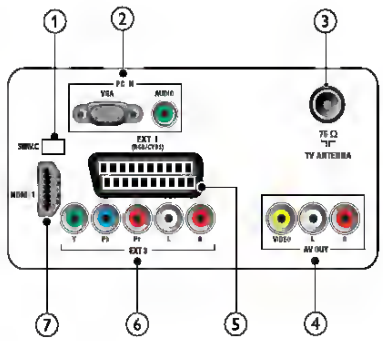
7 Connect devices

This section describes how to connect various devices with different connectors and supplements examples provided in the Quick Start.

Note

- Different types of connectors may be used to connect a device to your TV, depending on availability and your needs.

Back connector for 19-22 inch TV



① **SERV. C**
For software update.

② **PC IN (VGA and AUDIO IN)**
Audio and video input from a computer.

③ **TV ANTENNA**
Signal input from an antenna, cable or satellite.

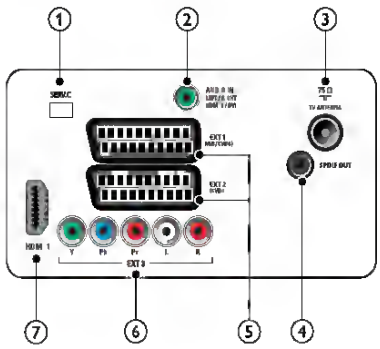
④ **AV OUT (VIDEO OUT and AUDIO OUT L/R)**
Audio and video output to analogue devices such as another TV or a recording device.

⑤ **EXT 1 (RGB and CVBS)**
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.

⑥ **EXT 2 (Y Pb Pr and AUDIO L/R)**
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.

⑦ **HDMI 1**
Digital audio and video input from high-definition digital devices such as Blu-ray players.

Back connector for TV 26 inch and larger



① **SERV. C**
For software update.

② **AUDIO IN**
Audio input from devices that require a separate audio connection, such as a computer.

③ **TV ANTENNA**
Signal input from an antenna, cable or satellite.

④ **SPDIF OUT**
Digital audio output to home theatres and other digital audio systems.

English

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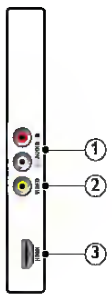
⑤ **EXT 1 (RGB and CVBS)/EXT 2 (CVBS)**
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles. EXT 2 supports CVBS.

⑥ **EXT 3 (Y Pb Pr and AUDIO L/R)**
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.

⑦ **HDMI 1**
Digital audio and video input from high-definition digital devices such as Blu-ray players.

Side connector



① **AUDIO L/R**
Audio input from analogue devices connected to **VIDEO**.

② **VIDEO**
Composite video input from analogue devices such as VCRs.

③ **HDMI (For TV 26 inch and larger)**
Digital audio and video input from high-definition digital devices such as Blu-ray players.

Connect a computer

Before you connect a computer to the TV

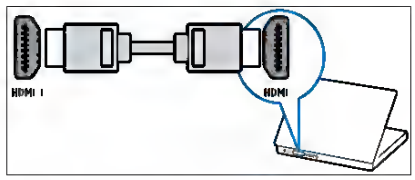
- Set the screen refresh rate on your computer to 60Hz.
- Select a supported screen resolution on your computer.

Connect a computer with one of the following connectors:

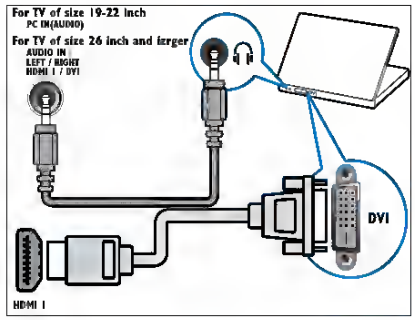
Note

- Connections via DVI or VGA require an additional audio cable.

- **HDMI cable**



- **DVI-HDMI cable**



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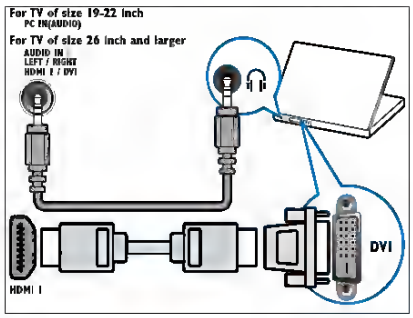
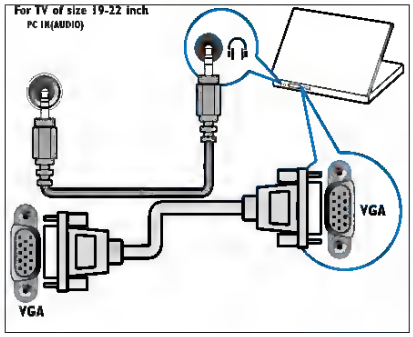
- HDMI cable and HDMI-DVI adaptor



- VGA cable



Use Philips EasyLink

Your TV supports Philips EasyLink, which enables one-touch play and one-touch standby between EasyLink-compliant devices.

Note

- Compliant devices must be connected to your TV via HDMI.

Enable or disable EasyLink

Note

- Do not enable Philips EasyLink if you do not intend to use it.

1 Press **MENU**.
2 Select **[Installation]** > **[Preferences]** > **[EasyLink]**.
3 Select **[On]** or **[Off]**.

English

Use one-touch play

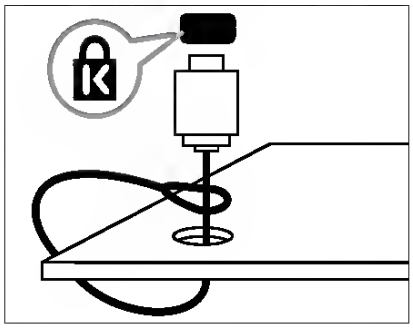
1 After enabling EasyLink, press play on your device.
↳ The TV automatically switches to the correct source.

Use one-touch standby

1 Press and hold **⏻Standby** on the TV's or device's remote control for at least three seconds.
↳ The TV and all connected HDMI devices switch to standby.

Use a Kensington lock

There is a Kensington security slot at the back of the TV. Prevent theft by looping a Kensington lock between the slot and a permanent object, such as a heavy table.



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8 Product information

Product information is subject to change without notice. For detailed product information, go to www.philips.com/support.

Supported display resolutions

Computer formats

- Resolution - refresh rate
  - 640 x 480 - 60Hz
  - 800 x 600 - 60Hz
  - 1024 x 768 - 60Hz
  - 1280 x 1024 - 60 Hz
  - 1360 x 768 - 60Hz
  - 1440 x 900 - 60Hz (For Full HD only)
  - 1680 x 1050 - 60Hz (For Full HD only)
  - Via HDMI/DVI input

Video formats

- Resolution - refresh rate
  - 480i - 60Hz
  - 480p - 60Hz
  - 576i - 50Hz
  - 576p - 50Hz
  - 720p - 50Hz, 60Hz
  - 1080i - 50Hz, 60Hz
  - 1080p - 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

Tuner/Reception/ Transmission

- Antenna input: 75ohm coaxial (IEC75)
- TV system: PAL I, B/G, D/K; SECAM B/G, D/K, L/L'
- Video playback: NTSC, SECAM, PAL
- Tuner Bands: Hyperband, S-channel, UHF, VHF

Remote control

- Type: PF01E09B
- Batteries: 2 x AAA (LR03 type)

Power

- Mains power: 220-240V, 50Hz
- Standby power: < 0.3W
- Ambient temperature: 5 to 40 degrees Celsius

Supported TV mounts

To mount the TV, purchase a Philips TV mount or a VESA-compatible TV mount. To prevent damage to cables and connectors, be sure to leave a clearance of at least 2.2 inches or 5.5cm from the back of the TV.

Warning

- Follow all instructions provided with the TV mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

TV screen size (inches)	Required pitch (mm)	Required mounting bolts
19	100 x 100	4 x M4
22	100 x 100	4 x M4
26	100 x 200	6 x M4
32	200 x 200	4 x M6
42	400 x 400	4 x M6

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9 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

General TV issues

The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.

The remote control is not working properly:

- Check that the remote control batteries are correctly inserted according to the +/- orientation.
- Replace the remote control batteries if they are flat or weak.
- Clean the remote control and TV sensor lens.

The standby light on the TV blinks red:

- Disconnect the power cable from the power outlet. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

You forgot the code to unlock the TV lock feature

- Enter '8888'.

The TV menu is in the wrong language.

- Change the TV menu to your preferred language.

When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:

- No action is required. The creaking sound is normal expansion and contraction of the TV as it cools down and warms up. This does not impact performance.

TV channel issues

Previously installed channels do not appear in the channel list:

- Check that the correct channel list is selected.

Picture issues

The TV is on, but there is no picture:

- Check that the antenna is properly connected to the TV.
- Check that the correct device is selected as the TV source.

There is sound but no picture:

- Check that the picture settings are correctly set.

There is poor TV reception from an antenna connection:

- Check that the antenna is properly connected to the TV.
- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine tune this channel.

There is poor picture quality from connected devices:

- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

The TV did not save your picture settings:

- Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

The picture does not fit the screen; it is too big or too small:

- Try using a different picture format.

English

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The picture position is incorrect:

- Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

Sound issues

There is a picture but sound quality is poor:

Note

- If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.

There is a picture but the sound quality is poor:

- Check that the sound settings are correctly set.

There is a picture but sound comes from one speaker only:

- Verify that sound balance is set to the centre.

HDMI connection issues

There are problems with HDMI devices:

- Note that HDCP support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If a HDMI-to-DVI adaptor or HDMI to DVI cable is used, check that an additional audio cable is connected to **AUDIO L/R** or **AUDIO IN** (mini-jack only).

Computer connection issues

The computer display on the TV is not stable:

- Check that a supported resolution and refresh rate is selected on the computer.
- Set the TV picture format to unscaled.

Contact us

If you cannot resolve your problem, refer to the FAQs for this product at www.philips.com/support.
If the problem remains unresolved, contact Philips Consumer Care in your country as listed in the Addendum.

Warning

- Do not attempt to repair the product yourself. This may cause severe injury, irreparable damage to your product or void your warranty.

Note

- Make a note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.

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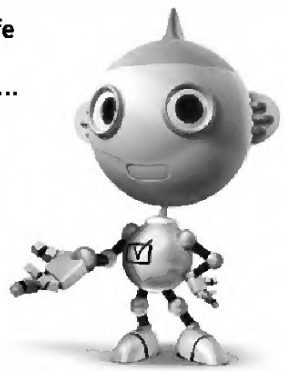
Information about how to re-tune your TV during the **digital** TV switchover.

Keep this user manual safe – you'll need it.



Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see the next page to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones.

get set for digital

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Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.
If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

If you have any questions, please contact your equipment supplier or call Digital UK on ... 0845 6 50 50 50 or visit www.digitaluk.co.uk

How to re-tune:

To find out how to re-tune your TV, check this user manual for details.
Go to section **6 Install channels**.

If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

When does switchover happen?

*Copeland switches on October 17, 2007

The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on www.digitaluk.co.uk

Check your ITV news service or look at Teletext page 106 to see what TV region you're in.

Visit us at **digitaluk.co.uk**
Call us on **0845 6 50 50 50†**

†Calls charged at BT rate of 3p per minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

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